

Isaac Ng

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Computer Science major seeking opportunities for future challenges to improve professional and personal skills.

Education

Case Western Reserve University Class of 2019

Cleveland, Ohio

B.S. COMPUTER SCIENCE W/ BUSINESS MANAGEMENT MINOR

08/2015–Present

- Relevant Coursework: Data Structures, Algorithms, Software Craftsmanship, Computational Intelligence

Experience

Seagate

Longmont, Colorado

FIRMWARE DATAFLOW ENGINEERING INTERN

05/2018-08/2018

- Added functionality for multiple drives/worker to Python script that parsed csv data.
- Converted excel writing library from **XLWT** to **XLSXWriter** to optimize code.
- Prototyped multi actuator support for script that generated command list data.
- Communicated effectively with remote office in order to coordinate work to be done.

Seagate

Longmont, Colorado

FIRMWARE DATAFLOW ENGINEERING INTERN

05/2017-08/2017

- Coordinated with the Firmware Engineering Group via **Agile Methodologies** using **SBM** and **JIRA**.
- Modified STX script to print drive data to csv; wrote Python script to parse csv and display performance.
- Participated in multiple code reviews using **Perforce**.
- Refactored and debugged code using **Coverity** and **Code Collaborator**.

Projects

- Wrote 2x2 Rubik's Cube solver that used **A*** and **beam search** in Java.
- Wrote byrrice.github.io, a personal website written in HTML/CSS/JavaScript.
- Wrote Loop, a 2D platformer game in **Unity** using C#.
- Wrote ImageToSpeech, a Chrome extension that describes images using the **Google Vision API** in JavaScript.

Skills

- **Software:** IntelliJ, Git, JIRA, Perforce, Coverity, GitHub, Unity, Trello, Slack, Discord, Sony Vegas Pro
- **Programming Languages:** Java, Python, Matlab, HTML, JavaScript, C, C++, C#, Markdown/Latex, Scheme
- **Misc:** Agile Methodology, American Red Cross Lifeguard Certification, Mandarin

Honors & Awards

- **Coding:** HackCWRU V Maker Award
- **Eagle Scout:** Senior Patrol Leader, Eagle Scout Project: Sandstone Ranch Restoration
- **Instruments:** Carnegie Hall Royal Conservatory Level 10 Oboe Certification, American String Teacher Association Level 10 Violin Certification

Interests/Hobbies

- Membership Development Chair of Case Engineering Council 07/2017 - Present
- Pytte Cup Chair, Social Chair of Phi Gamma Delta(FIJI) 02/2016 - Present
- Vice President of Case Western Club Tennis 08/2015 - Present
- Vice President/Co-Founder of CWRU Without Borders 10/2017 - Present
- Captain/In Game Leader of Esports Club Collegiate Star League CSGO Team 08/2017 - 12/2017